



# User's Manual





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## Safety and General Information

This system is not serviceable by the user and contains all non-serviceable parts.

If an alarm occurs:

- Pull over and visually inspect all four tires
- If the tires appear safe, drive carefully to the nearest service station and inflate the tires to the manufacturer's recommended pressure
- Press and hold the manual reset button for five seconds to reset the system. The manual reset button is located inside the glove compartment
- If the system continues to alarm after ensuring the tires are inflated to the recommended level and resetting the OmnAuto System, please contact an authorized service center immediately.



The OmnAuto TMS is designed to alert the driver of incorrect tire pressures. It will not modify pressure levels of the tires.



While the OmnAuto System has been thoroughly tested and is proven to be accurate, it is not designed to replace manual monitoring of the tire pressure.

**The Rubber Manufacturer's Association recommends that tire pressure should be manually checked at least once per month.**

**For full functionality of the OmnAuto TMS software, a personal computer and SD card reader are required.**

## Installation

- The auto manufacturer has professionally installed OmnAuto TMS.
- Any questions regarding the installation should be addressed to the auto manufacturer.
- The OmnAuto TMS contains all non-serviceable parts.

## Rotation of Tires



It is recommended that you rotate your vehicle's tires in accordance with the vehicle user's manual.

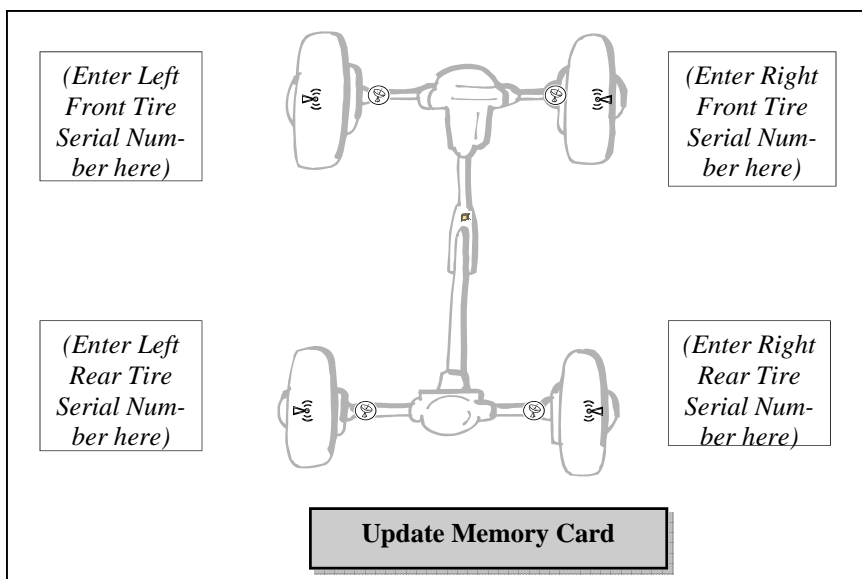
**During the rotation process, it is important to note the new location of each wheel with respect to the old location.**

**Each sensor is associated with a tire serial number, which is imprinted on the outside of the tire.**

Once the rotation process is complete:

1. Remove the memory card located in the OmnAuto unit.
2. Insert memory card into an SD card reader attached to your computer.
3. Start the OmnAuto TMS software.
4. Using the provided OmnAuto PC software, update the memory card by entering in the tire serial number into the correct wheel location as shown in diagram below.
5. Press the “Update Memory Card” button in the running software.
6. Remove memory card.
7. Exit software.
8. Re-insert memory card into the OmnAuto unit, located in your vehicle.

**The OmnAuto TMS will be updated with the correct tire locations the next time your vehicle’s ignition is turned on.**



## Getting New Tires

The OmnAuto TMS has been calibrated specifically for the original tires on your vehicle. Replacement tires should be comparable to the original specifications for your vehicle.



Installing tires that do not match the original specifications may cause inaccurate readings from the OmnAuto TMS.



To maintain correct operation of the OmnAuto system, it is important to follow the recommendations of automobile manufacturer. Any failure to follow the manufacturer's recommendations may lead to unpredictable results of the OmnAuto TMS.

**As new tires are being installed, note the sensor ID and the tire serial number that is being changed.**

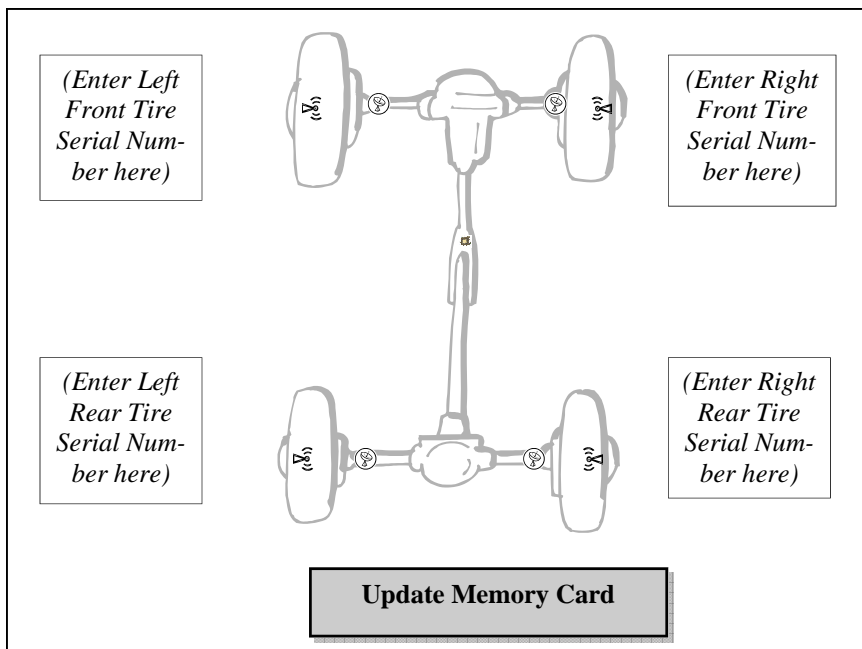
Each sensor is associated with a tire serial number, which is imprinted on the outside of the tire.

**After installation of the new tires, it is necessary to update the OmnAuto system.**

To update the OmnAuto TMS after new tire installation:

1. Remove the memory card located in the OmnAuto unit
2. Insert memory card into an SD card reader attached to your computer
3. Start the OmnAuto TMS software
4. Using the provided OmnAuto PC software, update the memory card by entering in the tire serial number into the correct wheel location as shown in diagram below
5. Press the “Update Memory Card” button in the running software
6. Remove memory card
7. Exit software
8. Re-insert memory card into the OmnAuto unit, located in your vehicle

**The OmnAuto TMS will be updated with the new tire information the next time your vehicle’s ignition is turned on.**





## Getting New Rims

The auto manufacturers have mounted the OmnAuto sensors on the vehicle's rims.



If a vehicle's rim is to be replaced, it is important that a qualified professional remount the sensor on the new rim. The OmnAuto system may be affected by installing new rims. Please consult with your auto manufacturer dealership before replacing any rims on your vehicle.

The OmnAuto system is designed to work with the design specifications of the original vehicle.



Failure to replace the original wheel with one having the same characteristics in regards to load capacity, diameter, rim width and offset, could lead to incorrect functionality of the OmnAuto system.

## General Usage Instructions

The OmnAuto TMS is fully operational upon delivery from the dealer.

OmnAuto TMS consists of three parts that the car owner will see and interact with:

- Dashboard display
- Manual Reset Button
- Removable Memory System



OmnAuto monitors your tires when the ignition is in the ON position. It is not operational when the ignition is in the OFF or ACCESSORY positions. Monitoring continues while the ignition is ON whether the car is at a standstill or in motion.

## Display



When the ignition is turned on, the OmnAuto TMS performs an initial check of the system. When you turn the ignition ON, all four tires will light up briefly then go out. This is normal and tells you that the system is working properly.



If all four lights do not come on briefly during this system check, there is a problem with the TMS

## Alarms

When any of the tires on the dashboard indicator light up, the OmnAuto System has detected a potentially dangerous situation concerning that tire or tires.

Next to the dashboard indicator is a display unit showing the percent below the manufacturer's recommended tire pressure. If more than one tire is lit, the value in the display will be the largest percentage low of all of the tires.



If an alarm occurs, pull over and visually inspect all four tires. If the tires appear safe, drive carefully to the nearest service station and inflate the tires to the manufacturer's recommended pressure.



OmnAuto TMS does not fix low tire pressure.

Air must be added by the driver in order to establish the correct tire pressure. Once the tire pressure is correctly established, then the manual reset button must be pressed to reset the system.



The yellow indicator light will not turn off until the manual reset button is pressed.

## Manual Reset Button

Press and hold the manual reset button for five seconds to reset the system. The manual reset button is located inside the glove compartment.



If the system continues to alarm after ensuring the tires are inflated to the recommended level and resetting the OmnAuto System, please contact an authorized service center immediately.



Only let a professional service person work with the tire. Sensors must be mounted correctly in order to work.

## Removable Memory & Software Instructions

OmnAuto TMS keeps track of all data recorded by the sensors and the system. This information gives valuable feedback on the performance of each tire on the car.



Your system will operate properly even without the removable memory in place.



You will not be able to access any historical data on a remote computer without it.



Large magnetic fields may destroy the data on the SD memory card.

The user software that comes with OmnAuto TMS allows the user to view graphs of historical data. Graphs can be displayed for both pressure and temperature relative to time. This user software requires a java-enabled computer, and a SD card reader.

Using and displaying data:

1. Remove the SD card from the OmnAuto TMS.
2. Insert the memory card into a compatible a SD card reader attached to your computer.
3. Start the OmnAuto TMS software.
4. From the menu screen you can choose to display various graphs and modify information concerning equipment on your system.
5. **When finished, do not forget to put the SD card back into the OmnAuto TMS system in your car.** The system will function without it, but you will not be able to view any historical data.

# End User Software License Agreement

## **OMNAUTO® TIRE MONITORING SYSTEM® SOFTWARE END USER LICENSE AGREEMENT**

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## Terminology

**Cold Pressure** – The vehicle manufacturer's recommended inflation pressure of a tire at ambient temperature (64 degrees F or 18 degrees C).

**Dash Tell-Tale** – The graphical display of the car on the vehicle's dash board. The appropriate tire will be shine yellow if there is a problem.



**Direct Monitoring** – The tire pressure is measured directly for each tire, rather than by calculation of pressure.

**Historical Data** – The Data captured by the OmnAuto Tire Monitoring System. All alarms, plus pressure and temperature for each tire at 30 second intervals.

**NHTSA** – National Highway Transportation Safety Administration. It exists as a subdivision of the U.S. Department of Transportation and investigates safety defects in motor vehicles, among other things.

**RF** – Radio Frequency. Any frequency within the electromagnetic spectrum normally associated with radio wave propagation.

**SD Memory Card** - Removable Memory Card – The Secure Digital Media Card located on the OmnAuto Processing unit. The Unit is located under the dash board, on the left side of the car. The Memory card can be removed so that the historical data can be collected and further analyzed. The OmnAuto Tire Pressure Monitoring System will still function normally even without the memory card in place.

**Sensors** – Mounted on the rim, inside the tire, they detect both air pressure and temperature inside the tire, and transmit through RF to the receiver.

## Specifications

Item	Quantity	Manufacturer
<b>Hardware: Please note, all hardware was professionally installed by your Auto Manufacturer, and contains no serviceable parts.</b>		
Temperature/ Pressure Sensors – transmit RF signal	4	SmarTire
RF receiver	1	See your Automobile Users Manual for more information
OmnAuto TMS Con- troller	1	OmnAuto LLC
Secure Digital (SD) card	1	San Disk
<b>Software: Install disks should have been included with your Automobile Users Manual. Original software and available updates can also be downloaded directly from <a href="http://www.OmnAuto.com">http://www.OmnAuto.com</a></b>		
OmnAuto TMS Soft- ware	1	OmnAuto LLC



OmnAuto TMS software requires a computer running Windows 98 or later, UNIX, or Linux. AN SD card reader is also required.

## FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Caution:** Changes or modifications to the product not expressly approved by The OmnAuto Group could void the users authority to operate the product.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

## **Limit of Liability**

omnAuto LLC is not responsible for any consequences resulting from the failure of the OmnAuto TMS. It is designed as an early warning system, and not intended to replace routine manual monitoring of the tire pressure.

OmnAuto LLC and your auto manufacturer are not responsible for any time that you lose, for any inconvenience you might be caused, for the loss of your transportation, or for any other incidental or consequential damages you may have.

## **Warranty Information**

All information concerning the OmnAuto TMS warranty should be addressed directly to the auto manufacturer. OmnAuto TMS provides a one-year warranty to the auto manufacturer.

OmnAuto LLC and your auto manufacturer are not responsible for any time that you lose, for any inconvenience you might be caused, for the loss of your transportation, or for any other incidental or consequential damages you may have.

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